

## CLAIMS

What is claimed is:

1. In a system that includes a user computer that communicates with a server computer over a network, a method for mitigating a cross-site scripting attack, the method comprising:

receiving a request from a user computer, wherein the request includes data derived from an outside source;

determining if the request from the user computer includes a marker of active content; and

refraining from executing the request if the request includes the marker of active content.

2. A method as defined in claim 1, wherein receiving a request from a user computer further comprises receiving an HTTP request from the user computer.

3. A method as defined in claim 1, wherein receiving a request from a user computer further comprises at least one of:

receiving a cookie from the user computer;

receiving a query string from the user computer;

receiving an HTTP form from the user computer; and

receiving one or more HTTP headers from the user computer.

4. A method as defined in claim 3, wherein determining if the request from the user computer includes a marker of active content further comprises evaluating only a portion of the request that includes the data derived from an outside source.

5. A method as defined in claim 1, wherein determining if the request from the user computer includes a marker of active content further comprises at least one of:

searching the request for one or more character combinations that correspond to a script construct;

searching the request for an event that includes a script construct; and

searching the request for an expression that includes a script construct.

6. A method as defined in claim 1, wherein determining if the request from the user computer includes a marker of active content further comprises searching the request for a pattern that indicates an unauthorized script.

7. A method as defined in claim 1, wherein refraining from executing the request if the request includes the marker of active content further comprises at least one of:

generating an event that is logged at the server;

encoding a response that is delivered to the user computer; and

requiring the user computer to re-submit the request.

8. In a system that includes a user computer that communicates with a server computer over a network, wherein the server computer generates dynamic content based on input from the user computer, a method for mitigating a cross-site scripting attack such that data submitted to the server computer is not sent back to the user computer as script, the method comprising:

receiving an HTTP request at a server computer, wherein the HTTP request includes input data that was not generated by the server computer;

evaluating the HTTP request to determine if the input data includes a script construct, wherein the script construct indicates that HTTP request is part of a cross-site scripting attack; and

preventing the cross-site scripting attack if the input data includes a script construct.

9. A method as defined in claim 8, wherein receiving an HTTP request at a server computer further comprises at least one of:

receiving a query string that includes at least one query string variable;

receiving a cookie;

receiving one or more headers in the HTTP request; and

receiving one or more form fields.

10. A method as defined in claim 8, wherein evaluating the HTTP request to determine if the input data includes a script construct further comprises at least one of:

searching the HTTP request for one or more character combinations that correspond to a script construct;

searching the HTTP request for an event that includes a script construct;

searching server variables that derive input data from another source; and

searching the HTTP request for an expression that includes a script construct.

11. A method as defined in claim 8, wherein evaluating the HTTP request to determine if the input data includes a script construct further comprises searching the input data for a script construct.

12. A method as defined in claim 11, wherein searching the input data for a script construct further comprises searching for patterns associated with scripts.

13. A method as defined in claim 8, wherein preventing the cross-site scripting attack if the input data includes a script construct further comprises refraining from executing the HTTP request.

14. A method as defined in claim 8, wherein preventing the cross-site scripting attack if the input data includes a script construct further comprises logging an event at the server computer.

15. A method as defined in claim 8, wherein preventing the cross-site scripting attack if the input data includes a script construct further comprises encoding the user input including the script construct to render the script inert.

16. A method as defined in claim 8, wherein evaluating the HTTP request to determine if the input data includes a script construct further comprises evaluating the HTTP request to determine in the input data includes a marker of active content.

17. A method as defined in claim 16, wherein evaluating the HTTP request to determine in the input data includes a marker of active content further comprises determining if the marker of active content is within a particular element, wherein the marker of active content is harmful only when rendered within the particular element.

18. In a system that includes a user computer that communicates with a server computer over a network, wherein the server computer generates dynamic content based on input from the user computer, a computer program product for implementing a method for mitigating a cross-site scripting attack such that input data submitted to the server computer is not sent back to the user computer as script, the computer program product comprising:

a computer-readable medium having computer executable instructions for performing the method, the method comprising:

receiving an HTTP request at a server computer, wherein the HTTP request includes input data that was not generated by the server computer;

evaluating the HTTP request to determine if the input data includes a script construct that indicates a cross-site scripting attack; and

preventing the cross-site scripting attack if the input data includes a script construct.

19. A computer program product as defined in claim 18, wherein receiving an HTTP request at a server computer further comprises at least one of:

receiving a query string that includes query string variables;

receiving a cookie;

receiving one or more headers in the HTTP request; and

receiving one or more form fields.

20. A computer program product as defined in claim 18, wherein evaluating the HTTP request to determine if the input data includes a script construct further comprises at least one of:

searching the HTTP request for one or more character combinations that correspond to a script construct;

searching the HTTP request for an event that includes a script construct;

searching server variables that derive input data from another source; and

searching the HTTP request for an expression that includes a script construct.

21. A computer program product as defined in claim 18, wherein evaluating the HTTP request to determine if the input data includes a script construct further comprises searching the input data for a script construct.

22. A computer program product as defined in claim 21, wherein searching the input data for a script construct further comprises searching for patterns associated with scripts.

23. A computer program product as defined in claim 18, wherein preventing the cross-site scripting attack if the input data includes a script construct further comprises refraining from executing the HTTP request.

24. A computer program product as defined in claim 18, wherein preventing the cross-site scripting attack if the input data includes a script construct further comprises logging an event at the server computer.

25. A computer program product as defined in claim 18, wherein preventing the cross-site scripting attack if the input data includes a script construct further comprises encoding the user input including the script construct to render the script inert.